

# STRUCTURE SEARCH in REGISTRY

Clardy 09/890086

(crossover RNS to

11/02/2005

CAPLUS,

TOXCENTER, USPATFULL,  
CAOLD)

=> file registry

FILE 'REGISTRY' ENTERED AT 10:44:16 ON 02 NOV 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 31 OCT 2005 HIGHEST RN 866452-21-3

DICTIONARY FILE UPDATES: 31 OCT 2005 HIGHEST RN 866452-21-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> file caplus toxcenter uspatfull caold

FILE 'CAPLUS' ENTERED AT 10:44:37 ON 02 NOV 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'TOXCENTER' ENTERED AT 10:44:37 ON 02 NOV 2005

COPYRIGHT (C) 2005 ACS

FILE 'USPATFULL' ENTERED AT 10:44:37 ON 02 NOV 2005

CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAOLD' ENTERED AT 10:44:37 ON 02 NOV 2005

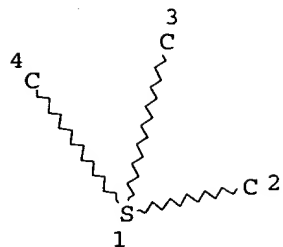
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> d stat que L45

L12 STR



## NODE ATTRIBUTES:

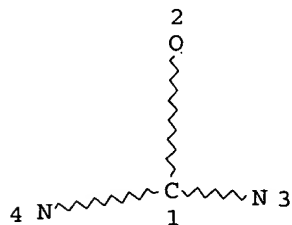
NSPEC IS C AT 1  
 NSPEC IS RC AT 2  
 NSPEC IS RC AT 3  
 NSPEC IS RC AT 4  
 DEFAULT MLEVEL IS ATOM  
 MLEVEL IS CLASS AT 1 2 3 4  
 DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 4

## STEREO ATTRIBUTES: NONE

L25 STR



## NODE ATTRIBUTES:

NSPEC IS C AT 1  
 NSPEC IS C AT 2  
 NSPEC IS C AT 3  
 NSPEC IS C AT 4  
 CONNECT IS E3 RC AT 1  
 CONNECT IS E1 RC AT 2  
 DEFAULT MLEVEL IS ATOM  
 MLEVEL IS CLASS AT 1 2 3 4  
 DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 4

## STEREO ATTRIBUTES: NONE

L28 22 SEA FILE=REGISTRY SSS FUL L25 AND L12  
 L45 18 SEA L28

=> dup rem L45

DUPLICATE IS NOT AVAILABLE IN 'CAOLD'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L45

L46 17 DUP REM L45 (1 DUPLICATE REMOVED)  
 ANSWERS '1-13' FROM FILE CAPLUS  
 ANSWERS '14-16' FROM FILE USPATFULL  
 ANSWER '17' FROM FILE CAOLD

=&gt; file stnguide

FILE 'STNGUIDE' ENTERED AT 10:45:05 ON 02 NOV 2005  
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
 COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE  
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Oct 28, 2005 (20051028/UP).

=&gt; d L46 ibib abs hitstr 1-17

YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS, USPATFULL, CAOLD' - CONTINUE? (Y)/N:y

L46 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 1991:471943 CAPLUS

DOCUMENT NUMBER: 115:71943

TITLE: Preparation of fumagillol analogs as angiogenesis inhibitors

INVENTOR(S): Kishimoto, Shoji; Marui, Shogo; Fujita, Takeshi

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 66 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

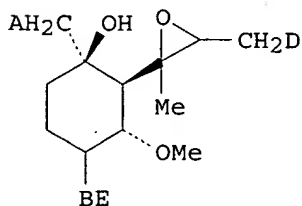
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 415294	A2	19910306	EP 1990-116309	19900825
EP 415294	A3	19910612		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 03279376	A2	19911210	JP 1990-226325	19900827
US 5180735	A	19930119	US 1990-575559	19900829
CA 2024306	AA	19910301	CA 1990-2024306	19900830
PRIORITY APPLN. INFO.:			JP 1989-226514	A 19890831
			JP 1990-57752	A 19900308

OTHER SOURCE(S): MARPAT 115:71943

GI



AB The title compds. [I; A = halo, NOmR1R2, N+R1R2R3X-, SOmR1, S+OmR1R2X-;

R1-R3 = (un)substituted hydrocarbyl, heterocyclyl; R1R2 = atoms to complete a ring; B = O, NR4; D = CH: CMe2, CH2CHMe2; E = H, (un)substituted hydrocarbyl, acyl; R4 = H, (un)substituted alkyl, aryl; X- = anion; m = 0, 1; n = 0-2] were prepared. Thus, fumagillol was treated with thiomethoxide and the product S-alkylated with 3-BrC6H4CH2Br to give I [A = 3-BrC6H4CH2S+(Me)Br-, B =  $\beta$ -O, D = CH: CMe2] (II; E = H) which was condensed with ClCH2CONCO to give II (E = CONHCOCH2Cl), 1 isomer of which restrained growth of tumors in mice inoculated with M5076 cells by 91% at 20 mg/kg s.c. daily for 10 days.

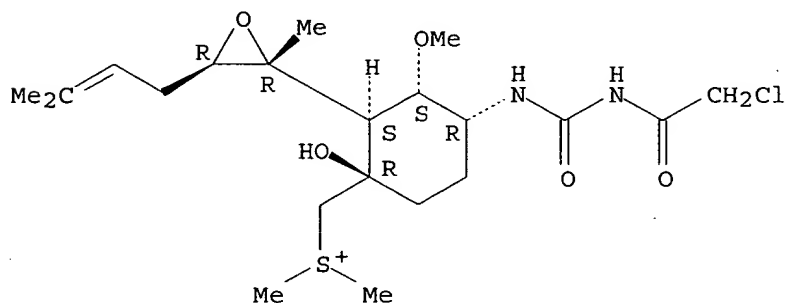
IT 135149-73-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as angiogenesis inhibitor and antitumor agent)

RN 135149-73-4 CAPLUS

CN Sulfonium, [[4-[[[(chloroacetyl)amino]carbonyl]amino]-1-hydroxy-3-methoxy-2-[2-methyl-3-(3-methyl-2-butenyl)oxiranyl]cyclohexyl]methyl]dimethyl-, iodide, [1R-[1 $\alpha$ ,2 $\alpha$ (2R\*,3R\*),3 $\beta$ ,4 $\beta$ ]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● I<sup>-</sup>

L46 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:534936 CAPLUS

DOCUMENT NUMBER: 133:131179

TITLE: Formulation of sulfonylurea herbicides and plant growth regulators

INVENTOR(S): Schnabel, Gerhard; Haase, Detlev; Maier, Thomas; Martinez de Una, Julio; Wurtz, Jochen

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000/44227	A1	20000803	WO 2000-EP469	20000122
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI,				

SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ,  
 MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 19903064	A1	20001005	DE 1999-19903064	19990127
DE 19963383	A1	20010705	DE 1999-19963383	19991228
CA 2360624	AA	20000803	CA 2000-2360624	20000122
BR 2000007772	A	20011030	BR 2000-7772	20000122
EP 1158858	A1	20011205	EP 2000-906217	20000122
EP 1158858	B1	20040407		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO

JP 2002535345	T2	20021022	JP 2000-595540	20000122
AU 763467	B2	20030724	AU 2000-27981	20000122
AT 263488	E	20040415	AT 2000-906217	20000122
ES 2218128	T3	20041116	ES 2000-906217	20000122

PRIORITY APPLN. INFO.:

DE 1999-19903064	A	19990127
DE 1999-19963383	A	19991228
WO 2000-EP469	W	20000122

OTHER SOURCE(S): MARPAT 133:131179

AB The invention relates to formulations containing (a) at least one phosphonium or sulfonium salt of a sulfonylurea, wherein the phosphonium and sulfonium cation of the salt has at least one substituent that is not hydrogen, and (b) conventional auxiliaries and additives.

IT 286842-51-1 286842-52-2 286842-54-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicidal formulation of)

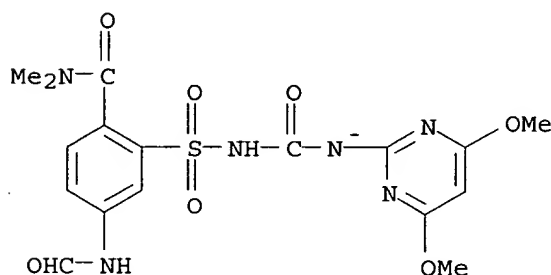
RN 286842-51-1 CAPLUS

CN Sulfonium, triphenyl-, salt with 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-(formylamino)-N,N-dimethylbenzamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 286838-54-8

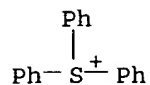
CMF C17 H19 N6 O7 S



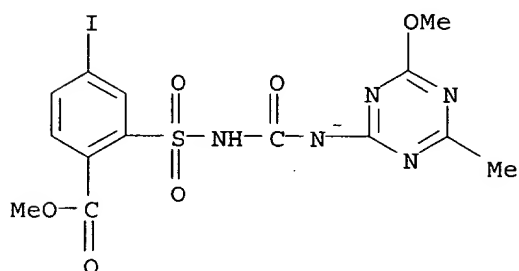
CM 2

CRN 18393-55-0

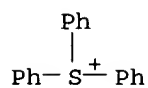
CMF C18 H15 S



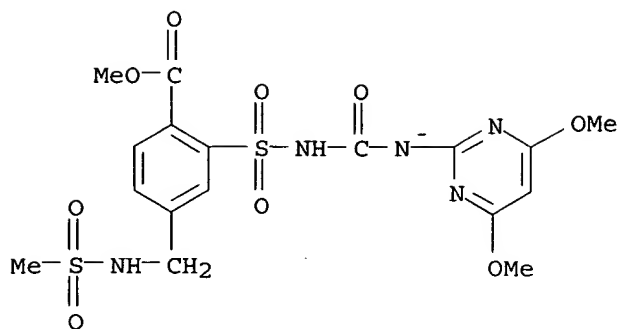
RN 286842-52-2 CAPLUS  
 CN Sulfonium, triphenyl-, salt with methyl 2-[[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-4-iodobenzoate (1:1) (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 286838-57-1  
 CMF C14 H13 I N5 O6 S



CM 2  
 CRN 18393-55-0  
 CMF C18 H15 S



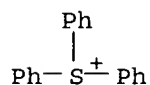
RN 286842-54-4 CAPLUS  
 CN Sulfonium, triphenyl-, salt with methyl 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[[[(methylsulfonyl)amino]methyl]benzoate (1:1) (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 286842-53-3  
 CMF C17 H20 N5 O9 S2



CM 2

CRN 18393-55-0

CMF C18 H15 S



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:648762 CAPLUS

DOCUMENT NUMBER: 127:364166

TITLE: Positive-working photosensitive composition containing sulfonic acid generating compound

INVENTOR(S): Aoai, Toshiaki; Kodama, Kunihiro; Sato, Kenichiro; Uenishi, Kazuya; Yamanaka, Tsukasa

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 59 pp.

CODEN: JKXXAF

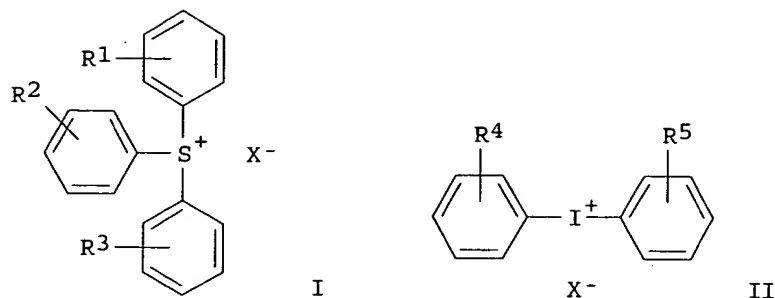
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09258435	A2	19971003	JP 1996-66664	19960322
PRIORITY APPLN. INFO.: GI			JP 1996-66664	19960322



AB The title composition contains a resin having groups which are decomposed by the action of acids to increase the solubility in alkaline developing solns. and a compound I or II [R1-5 = H, alkyl, cycloalkyl, alkoxy, OH, halo, SR6 (R6 = alkyl or aryl); X- = benzenesulfonic acid, naphthalenesulfonic acid, or anthracenesulfonic acid anion having  $\geq 1$  group selected from R7CO, R8CONH, R9NHCO, R10CONH, R11NHCO2, R12NHCONH, R13NHCSNH, R14SO2NH, nitro, (R7 = H, alkyl, cycloalkyl, aralkyl, aryl; R8-14 = alkyl, cycloalkyl, aralkyl, aryl)] which generates sulfonic acid upon irradiation The composition may comprise the sulfonic acid-generating compound, an acid-decomposable dissoln. inhibitor with mol. weight  $\leq 3000$  which has acid-decomposable groups and of which the solubility in alkaline developing solns. increases by the action of acids, and a resin insol. in water and soluble in aqueous alkali solns.

The composition shows high photosensitivity and provides high quality resist patterns with good profile independent of the elapse of time after exposure.

IT 198410-59-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(pos.-working photoresist composition containing sulfonic acid generating compound)

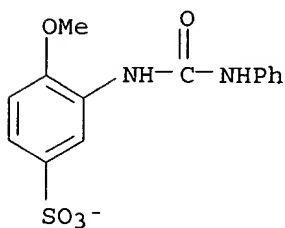
RN 198410-59-2 CAPLUS

CN Sulfonium, (4-methoxyphenyl)diphenyl-, salt with 4-methoxy-3-[[ (phenylamino)carbonyl]amino]benzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

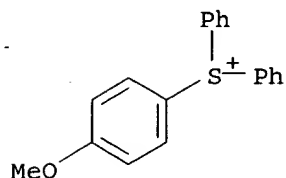
CM 1

CRN 198410-58-1

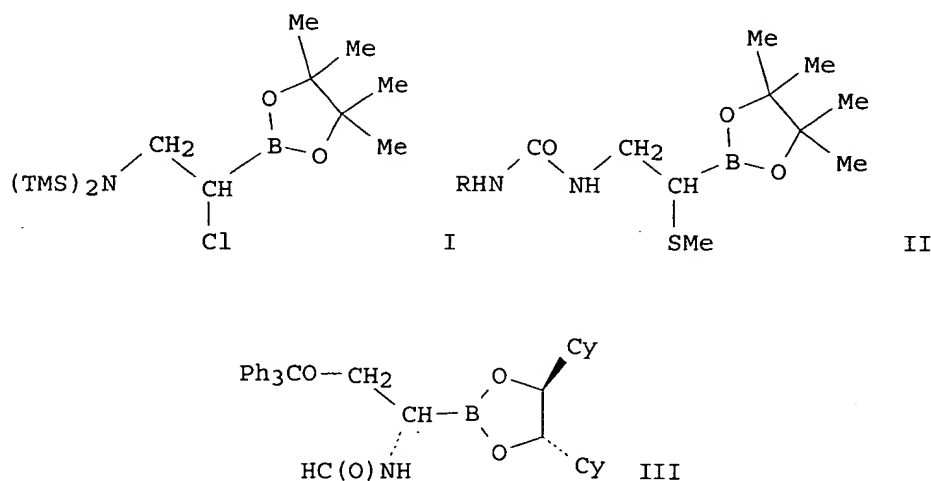
CMF C14 H13 N2 O5 S



CRN 70084-23-0  
CMF C19 H17 O S



L46 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1997:791367 CAPLUS  
DOCUMENT NUMBER: 128:48266  
TITLE: An exploratory study of silylated amino boronic ester chemistry  
AUTHOR(S): Matteson, Donald S.; Singh, Rajendra P.; Sutton, Christopher H.; Verheyden, James D.; Lu, Jian-Hui  
CORPORATE SOURCE: Department of Chemistry, Washington State University, Pullman, WA, 99164-4630, USA  
SOURCE: Heteroatom Chemistry (1997), 8(6), 487-494  
CODEN: HETCE8; ISSN: 1042-7163  
PUBLISHER: John Wiley & Sons, Inc.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 128:48266  
GI



AB Diisopropyl [bis(trimethylsilylamino)methyl]boronate, the analogous pinacol boronic ester (3), and pinacol [(2,2,5,5-tetramethyl-2,5,1-disilazol-1-yl)methyl]boronate (8) were prepared from the corresponding (bromomethyl)boronic ester and silylated Li amide. Reaction of 3 or 8 with (dichloromethyl)lithium yielded the corresponding [1-chloro-2-(silylated amino)ethyl]boronate 4 (shown as I) or 9. Further

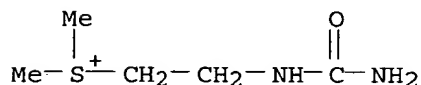
transformations of 4 to methylthio derivative 5 and dimethylamino derivative 7 as

well as conversion of 5 to ureido derivs. 6 (shown as II) are described. (S,S)-1,2-Dicyclohexylethanedio1 [1-chloro-2-(trityloxy)ethyl]boronate (13) was converted to bis(trimethylsilyl)amino derivative 14 and formamido derivative 15 (shown as III) as well as to N-benzyl analogs 18 and 19. Attempted chain extensions of 14, silylated 15, or 19 with (dichloromethyl)lithium indicated that the alkyl migration from B to C is slow and incomplete.

IT 200069-88-1P, Dimethyl(2-(N-ureido)ethyl)sulfonium iodide  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(formation in deboronation of (2-ureido-1-methylthioethyl)dioxaborolane)

RN 200069-88-1 CAPLUS

CN Sulfonium, [2-[(aminocarbonyl)amino]ethyl]dimethyl-, iodide (9CI) (CA INDEX NAME)



● I<sup>-</sup>

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:751875 CAPLUS

DOCUMENT NUMBER: 126:15866

TITLE: Glyphosate-comprising synergistic herbicidal mixtures

INVENTOR(S): Lichtner, Francis Thomas, Jr.

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA; Lichtner, Francis Thomas, Jr.

SOURCE: PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9634528	A1	19961107	WO 1996-US5951	19960429
W:	AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
FR 2733668	A1	19961108	FR 1995-5431	19950505
AU 9657177	A1	19961121	AU 1996-57177	19960429
EP 823837	A1	19980218	EP 1996-915388	19960429
EP 823837	B1	20010620		
R:	DE, ES, FR, GB			

ES 2159028 T3 20010916 ES 1996-915388 19960429  
 US 5928995 A 19990727 US 1997-945865 19971103  
 PRIORITY APPLN. INFO.: FR 1995-5431 A 19950505  
 WO 1996-US5951 W 19960429

AB This invention relates to herbicidal mixts. of triflusulfuron Me and glyphosate. The preferred crop is sugar beet, containing gene(s) that confer tolerance to glyphosate.

IT 184355-14-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic herbicidal mixture)

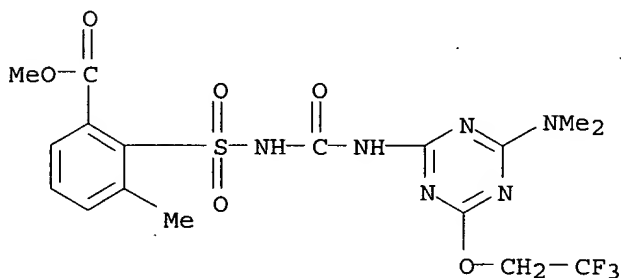
RN 184355-14-4 CAPLUS

CN Glycine, N-(phosphonomethyl)-, ion(1-), trimethylsulfonium, mixt. with methyl 2-[[[4-(dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl]-3-methylbenzoate (9CI) (CA INDEX NAME)

CM 1

CRN 126535-15-7

CMF C17 H19 F3 N6 O6 S



CM 2

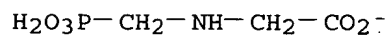
CRN 81591-81-3

CMF C3 H9 S . C3 H7 N O5 P

CM 3

CRN 81591-80-2

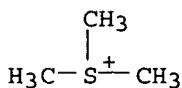
CMF C3 H7 N O5 P



CM 4

CRN 676-84-6

CMF C3 H9 S

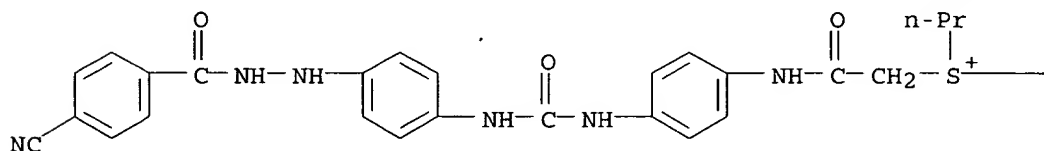


L46 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1994:667687 CAPLUS  
 DOCUMENT NUMBER: 121:267687  
 TITLE: Silver halide photographic material containing novel  
 hydrazine compound  
 INVENTOR(S): Arai, Kazumi; Ezoe, Toshihide; Kato, Kazunobu  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

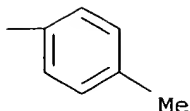
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06148778	A2	19940527	JP 1992-302604	19921112
JP 2732002	B2	19980325		

PRIORITY APPLN. INFO.: JP 1992-302604 19921112  
 OTHER SOURCE(S): MARPAT 121:267687  
 AB The title photog. material contains a hydrazine compound  
 $R1L1(R2L2)mR3NHNHG1R4$  [ $L1$  = bond, O, S,  $NR5$ , CO,  $SO2$ ,  $P(O)(G2R5)$ , or these combinations;  $L2$  =  $SO2NR5$ ,  $NR5SO2NR5$ ,  $CONR5$ ,  $NR5CONR5$ ,  $G2P(O)(G2R5)NR5$ ;  $G1$  = CO,  $SO2$ , SO, COCO, thiocarbonyl, iminomethylene,  $P(O)(G2R5)$ ;  $G2$  = bond, O,  $NR5$ ;  $R1$  = aliphatic or aromatic group substituted for  $\geq 1$  of  $R113P+.X-$  and  $R112S+.X-$  ( $R11$  = alkyl, aralkyl, alkenyl, alkynyl, aryl;  $X-$  = counter anion);  $R2$ ,  $R3$  = divalent aliphatic group or aromatic group;  $R4$  = H, aliphatic or aromatic group, alkoxy, aryloxy, (substituted) amino;  $R5$  = H, aliphatic or aromatic group;  $m = 0, 1$ ]. The material provides high contrast images even when processed with developing solns. of pH <11, and shows good stability in processing. Thus, a photog. film was prepared by using a Ag(Br, Cl) emulsion containing  $PhP+Me2CH2CONH(p-C6H4)NHNHCHO.Cl-$ .  
 IT 158899-43-5  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (photog. emulsion containing)  
 RN 158899-43-5 CAPLUS  
 CN Sulfonium, [2-[[4-[[[4-[2-(4-cyanobenzoyl)hydrazino]phenyl]amino]carbonyl]amino]phenyl]amino]-2-oxoethyl](4-methylphenyl)propyl-, chloride (9CI)  
 (CA INDEX NAME)

PAGE 1-A

● Cl<sup>-</sup>

PAGE 1-B



L46 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:127796 CAPLUS  
 DOCUMENT NUMBER: 120:127796  
 TITLE: Herbicide compositions containing magnesium salts.  
 INVENTOR(S): Yoshii, Hiroshi; Maeda, Masaru; Kikukawa, Koji  
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05271021	A2	19931019	JP 1992-361995	19921225
JP 3253392	B2	20020204		

PRIORITY APPLN. INFO.: JP 1991-361431 A1 19911227

AB Herbicide compns. contain 1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-trifluoromethyl-2-pyridylsulfonyl)urea (I) or its salts and homoalanin-4-ylmethylphosphinic acid (II), [2-amino-4-(hydroxymethylphosphinoyl)butyryl]alanylalanine and/or N-(phosphonomethyl)glycine, or their salts and inorg. Mg salt stabilizers. I (95% purity) 5.42, DL-II (84.6% purity) 54.1, Newkalgen EX 70 (Na dioctyl sulfosuccinate-Na benzoate mixture) 20.0, MgCO<sub>3</sub> 20.0, and Glauber's salt 0.48 weight part were mixed to prepare a wettable powder, which was diluted

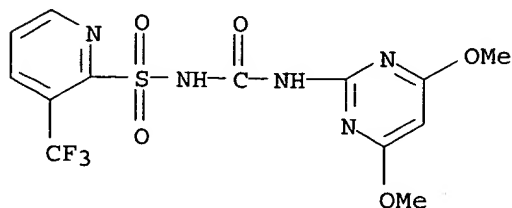
with H<sub>2</sub>O and stirred at 25-30° for 24 h to result in 3% decomposition of I, vs. 57%, without Mg salt.

IT 141563-83-9  
 RL: BIOL (Biological study)  
 (herbicides containing magnesium salts and)

RN 141563-83-9 CAPLUS  
 CN Glycine, N-(phosphonomethyl)-, ion(1-), trimethylsulfonium, mixt. with N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(trifluoromethyl)-2-pyridinesulfonamide (9CI) (CA INDEX NAME)

CM 1

CRN 104040-78-0  
 CMF C13 H12 F3 N5 O5 S



CM 2

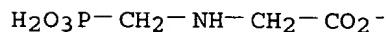
CRN 81591-81-3

CMF C3 H9 S . C3 H7 N O5 P

CM 3

CRN 81591-80-2

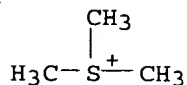
CMF C3 H7 N O5 P



CM 4

CRN 676-84-6

CMF C3 H9 S



L46 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:250515 CAPLUS

DOCUMENT NUMBER: 116:250515

TITLE: Synergistic herbicidal compositions comprising a pyridylsulfonylurea derivative

INVENTOR(S): Sakashita, Nobuyuki; Yoshii, Hiroshi; Yoshida, Tsunezo; Honzawa, Shooichi; Kikugawa, Hiroshi

PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

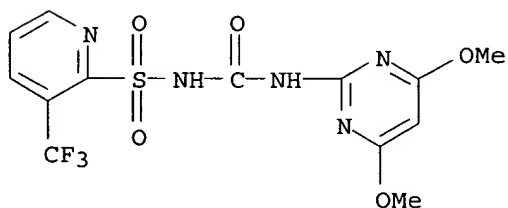
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 475392	A2	19920318	EP 1991-115391	19910911
EP 475392	A3	19921014		
EP 475392	B1	19960320		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 9106986	A	19920624	ZA 1991-6986	19910903

AU 9183706	A1	19920319	AU 1991-83706	19910906
AU 637717	B2	19930603		
JP 05070313	A2	19930323	JP 1991-308558	19910911
JP 2901794	B2	19990607		
BE 1005202	A3	19930525	BE 1991-845	19910911
AT 135528	E	19960415	AT 1991-115391	19910911
ES 2084741	T3	19960516	ES 1991-115391	19910911
HU 58472	A2	19920330	HU 1991-2938	19910912
HU 209758	B	19941028		
RU 2035143	C1	19950520	RU 1991-5001693	19910912
IL 99462	A1	19960912	IL 1991-99462	19910912
KR 195565	B1	19990615	KR 1991-15903	19910912
FR 2666723	A1	19920320	FR 1991-11348	19910913
FR 2666723	B1	19971212		
CN 1059828	A	19920401	CN 1991-109054	19910913
CN 1031973	B	19960612		
BR 9103954	A	19920526	BR 1991-3954	19910913
RO 109419	B1	19950228	RO 1991-148389	19910913
LV 10156	B	19950820	LV 1992-596	19921230
LT 3179	B	19950227	LT 1993-301	19930127
US 5434123	A	19950718	US 1993-161458	19931206
PRIORITY APPLN. INFO.:			JP 1990-243252	A 19900913
			US 1991-757052	B2 19910909
			US 1992-923529	B1 19920803
AB	Synergistic herbicidal compns. comprise 1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-trifluoromethyl-2-pyridylsulfonyl)urea (I) and glyphosate, diquat, and/or paraquat. A mixture of 1 g I and 5 g glyphosphate isopropylammonium salt/urea, applied postemergence, almost totally controlled Digitaria sanguinalis in pot expts., whereas the components by themselves were less effective.			
IT	141563-83-9 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses) (as herbicide, synergistic)			
RN	141563-83-9 CAPLUS			
CN	Glycine, N-(phosphonomethyl)-, ion(1-), trimethylsulfonium, mixt. with N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(trifluoromethyl)-2-pyridinesulfonamide (9CI) (CA INDEX NAME)			
CM	1			
CRN	104040-78-0			
CMF	C13 H12 F3 N5 O5 S			



CM 2

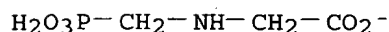
CRN 81591-81-3

CMF C3 H9 S . C3 H7 N O5 P

CM 3

CRN 81591-80-2

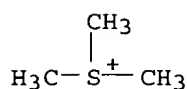
CMF C3 H7 N O5 P



CM 4

CRN 676-84-6

CMF C3 H9 S



L46 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:406755 CAPLUS

DOCUMENT NUMBER: 113:6755

TITLE: The use of crown ethers in peptide chemistry. Part 2. Syntheses of dipeptide complexes with cyclic polyether 18-crown-6 and their derivatization with DMSO

AUTHOR(S): Hyde, Carolyn B.; Welham, Kevin J.; Mascagni, Paolo

CORPORATE SOURCE: Dep. Pharm. Chem., Sch. Pharm., London, WC1N 1AX, UK

SOURCE: Journal of the Chemical Society, Perkin Transactions

2: Physical Organic Chemistry (1972-1999) (1989), (12), 2011-15

CODEN: JCPKBH; ISSN: 0300-9580

DOCUMENT TYPE: Journal

LANGUAGE: English

AB As part of a study to use crown compds. as non-covalent protecting groups in peptide synthesis, the reactivity of 18-crown-6 ether-dipeptide complexes with DCC in DMSO was explored. At a reactant concentration of about 0.02 mol dm<sup>-3</sup>, the DCC did not activate the dipeptide; the N-acylurea derivative slowly formed. At concns. of about 0.2 mol dm<sup>-3</sup>, the complexes were unstable and reacted with the solvent to form a DMSO-peptide adduct. The reaction mechanism leading to the latter involves an initial acid-catalyzed addition of DMSO to DCC. The presence in solution of nucleophiles gave the peptide ester, thus indicating DCC-mediated activation of the peptide carboxylic acid group. The results were used to design the conditions necessary for an effective noncovalent protection of the amino group during peptide synthesis.

IT 127605-80-5P

RL: FORM (Formation, nonpreparative); PREP (Preparation)  
(formation of, in reaction of crown ether-dipeptide complex with DCC and DMSO)

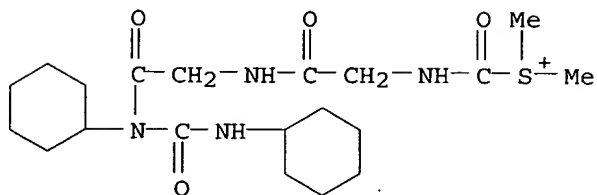
RN 127605-80-5 CAPLUS

CN Glycinamide, N-(dimethylsulfonio)glycyl-N-cyclohexyl-N-  
[(cyclohexylamino)carbonyl]-, salt with 4-methylbenzenesulfonic acid (1:1)  
(9CI) (CA INDEX NAME)

CM 1

CRN 127605-79-2

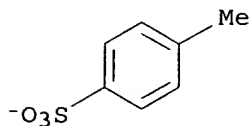
CMF C20 H35 N4 O4 S



CM 2

CRN 16722-51-3

CMF C7 H7 O3 S



L46 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:453557 CAPLUS

DOCUMENT NUMBER: 87:53557

TITLE: Alkylating esters. X. The reaction of some aziridine alkylating agents with methionine and S-methylcysteine

AUTHOR(S): Jones, A. R.; Capps, P. A.

CORPORATE SOURCE: Pharmacol. Dep., Univ. Manchester, Manchester, UK

SOURCE: Chemico-Biological Interactions (1977), 16(2), 181-9

CODEN: CBINA8; ISSN: 0009-2797

DOCUMENT TYPE: Journal

LANGUAGE: English

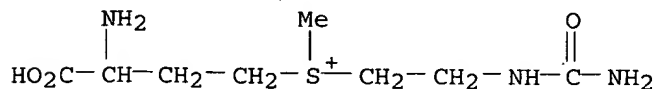
AB Two aziridine ring-containing compds., (I, R = CO<sub>2</sub>EH) and (I, R = CONH), reacted with methionine at pH 7.4 at 37°. The aziridine ring alkylates the thio ether group of methionine and other thio ether-containing amino acids to produce sulphonium salts. The sulphonium salts were quite stable under physiol. conditions (t<sub>1/2</sub> 7-9 days), hydrolyzing to convert the methionine residue to homoserine.

IT 53932-98-2P 63546-50-9P

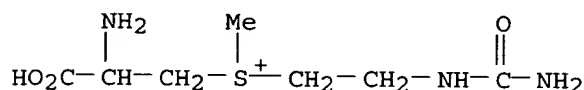
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and acidic degradation of)

RN 53932-98-2 CAPLUS

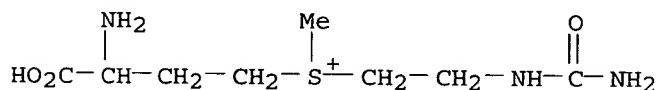
CN Sulfonium, [2-[(aminocarbonyl)amino]ethyl] (3-amino-3-carboxypropyl)methyl-, (3S)- (9CI) (CA INDEX NAME)



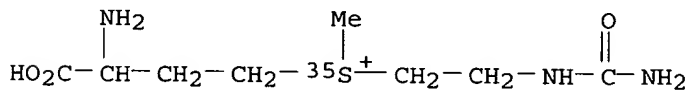
RN 63546-50-9 CAPLUS  
 CN Sulfonium, [2-[(aminocarbonyl)amino]ethyl] (2-amino-2-carboxyethyl)methyl-,  
 (2R)- (9CI) (CA INDEX NAME)



L46 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1974:491267 CAPLUS  
 DOCUMENT NUMBER: 81:91267  
 TITLE: Sulfonium salt formation from the reaction of  
 methionine with aziridine alkylating agents  
 AUTHOR(S): Capps, Phillip A.; Jones, Alan R.  
 CORPORATE SOURCE: Dep. Exp. Chemother., Christie Hosp., Manchester, UK  
 SOURCE: Journal of the Chemical Society, Chemical  
 Communications (1974), (9), 320-1  
 CODEN: JCCCAT; ISSN: 0022-4936  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB Alkylation of methionine by the aziridines I and II gave sulfonium salts  
 which were characterized by their degradation products. Ethionine, methionine  
 Me ester, N-acetylmethionine, glycylmethionine, and S-methylcysteine were  
 similarly treated and sulfonium salts were produced.  
 IT 53932-98-2P 53990-27-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 53932-98-2 CAPLUS  
 CN Sulfonium, [2-[(aminocarbonyl)amino]ethyl] (3-amino-3-carboxypropyl)methyl-,  
 (3S)- (9CI) (CA INDEX NAME)



RN 53990-27-5 CAPLUS  
 CN Sulfonium-35S, [2-[(aminocarbonyl)amino]ethyl] (3-amino-3-  
 carboxypropyl)methyl-, (3S)- (9CI) (CA INDEX NAME)



L46 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1970:520562 CAPLUS  
 DOCUMENT NUMBER: 73:120562  
 TITLE: Reactions of sulfur ylides with cyclic carboxyl  
 compounds and isocyanates  
 AUTHOR(S): Mukaiyama, Teruaki; Higo, Moriaki; Takei, Hisashi  
 CORPORATE SOURCE: Lab. Org. Chem., Tokyo Inst. Technol., Tokyo, Japan

SOURCE: Bulletin of the Chemical Society of Japan (1970),  
43(8), 2566-70  
CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal

LANGUAGE: English

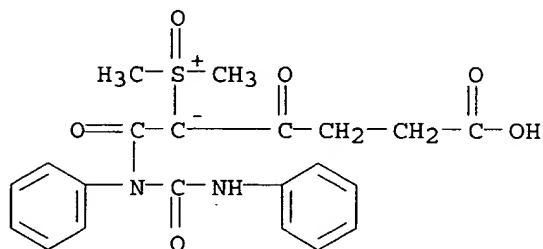
GI For diagram(s), see printed CA Issue.

AB The reactions of dimethyloxosulfoniummethylide  $\text{Me}_2\text{S}^+(\text{O})\text{C}-\text{H}_2$  with cyclic carboxyl compds. (I), such as lactones, carboxylic anhydrides and imides, gave the corresponding stable oxosulfonium ylides  $\text{Me}_2\text{S}^+(\text{O})\text{C}-\text{HCOYXH}$ . In addition, the reaction of phenyl isocyanate dimer (II) and  $\text{Me}_2\text{S}^+\text{C}-\text{H}_2$  afforded a 1:1 adduct  $[\text{Me}_2\text{S}^+\text{C}-(\text{CONHPh})_2]$ , which, on heating, decomposed to give a ring expansion product (III). Hydantoin derivs. (IV) were also produced by treating  $\text{Me}_2\text{S}^+\text{C}-\text{MeCOR}$  (V) with two moles of isocyanates in  $\text{Me}_2\text{SO}$ . On the other hand, when the same reactions were carried out in benzene, V reacted with an equimolar amount of isocyanate to give acrylamide derivs.  $(\text{MeSCH}_2\text{OCPh}:\text{CMeCONHR})$  in high yields by the rearrangement of the intermediate sulfoniummethylide (VI).

IT 29047-24-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 29047-24-3 CAPLUS

CN Sulfoxonium, dimethyl-, 4-carboxy-1-(2,4-diphenylallophanoyl)-2-oxobutylide (8CI) (CA INDEX NAME)



L46 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1967:422899 CAPLUS

DOCUMENT NUMBER: 67:22899

TITLE: Reactive dyes containing bis[2-(dimethylsulfonio)-ethyl]amino groups

INVENTOR(S): Razavi, Djavad

PATENT ASSIGNEE(S): Etablissements Kuhlmann

SOURCE: Fr., 6 pp.  
CODEN: FRXXAK

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1461687		19661209	FR	19651029
DE 1644145			DE	
GB 1164304			GB	
NL 6615162			NL	
US 3564006		19710000	US	

GI For diagram(s), see printed CA Issue.

AB Compds. of the general formula I, where Z is a dye residue, are prepared and give fast dyeings on cellulose. Thus, a solution of 360 parts (ClCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NH.HCl in 500 parts EtOH is added at -20° to a solution of 200 parts MeSH in 370 parts KOH and 160 parts EtOH, stirred for 7 hrs. at room temperature and for 2 hrs. under reflux to give (MeSCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NH.HCl (II),

m.

227-8° (CHCl<sub>3</sub>). A mixture of 12 parts CuPc (Pc = phthalocyanine residue) and 60 parts ClSO<sub>3</sub>H is heated for 4 hrs. at 135-42° and treated at 95-8° with 20 parts SOCl<sub>2</sub> to give CuPc(SO<sub>2</sub>Cl)<sub>4</sub> (III), which is treated with 10 parts II for 7 hrs. at 0-5° and pH 10-10.5 and with 3 parts H<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>OH (IV) at 55° and pH 8 for 2 hrs. to give 27 parts H<sub>2</sub>O-insol. greenish blue powder. A portion (20 parts) is suspended in 50 parts H<sub>2</sub>O and treated with 40 parts Me<sub>2</sub>SO<sub>4</sub> at 50-65°, chilled and brought to pH 6.5 to give a brilliant blue dye for cotton. III (from 12 parts CuPc) condensed with 12.5 parts II and 1.5 parts IV and methylated with Me<sub>2</sub>SO<sub>4</sub> gives a slightly redder dye. Similarly, other I are prepared from II (DH and shade on cotton given): V (R = H), reddish blue; VI, navy blue; V (R = Me), navy blue; 7,1,5-H<sub>2</sub>NC<sub>10</sub>H<sub>5</sub>(SO<sub>3</sub>H)<sub>2</sub> → 2-Cl<sub>10</sub>H<sub>7</sub>OH, red. 3-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>N(CH<sub>2</sub>CH<sub>2</sub>SM<sub>2</sub>+MeSO<sub>4</sub>)<sub>2</sub> (VII) diazotized and coupled with 1-(m-sulfamoylphenyl)-3-methyl-5-pyrazolone gives a yellow dye; 1,4-HOC<sub>10</sub>H<sub>6</sub>SO<sub>2</sub>NH<sub>2</sub>, [1,3,6-HO(HO<sub>3</sub>S)C<sub>10</sub>H<sub>5</sub>NH]<sub>2</sub>CO and 1,8,3,6-H<sub>2</sub>N(HO)C<sub>10</sub>H<sub>4</sub>(SO<sub>3</sub>H)<sub>2</sub> as coupling components (the last with 2 moles VII) gives reddish orange, reddish orange, and navy blue dyes, resp. VII is prepared from 3-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>N(CH<sub>2</sub>CH<sub>2</sub>SM<sub>2</sub>)<sub>2</sub>, m. 78-9° (EtOH), by methylation and reduction

IT 16437-36-8P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of)

RN 16437-36-8 CAPLUS

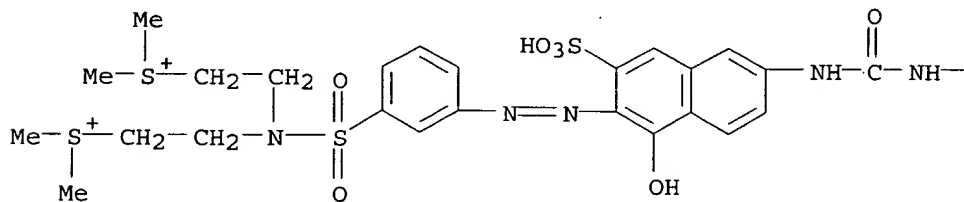
CN Sulfonium, [ureylenebis[(1-hydroxy-3-sulfo-6,2-naphthylene)azo]-m-phenylenesulfonylnitrilodiethylene]]tetrakis(dimethyl-, tetrakis(methyl sulfate) (8CI) (CA INDEX NAME)

CM 1

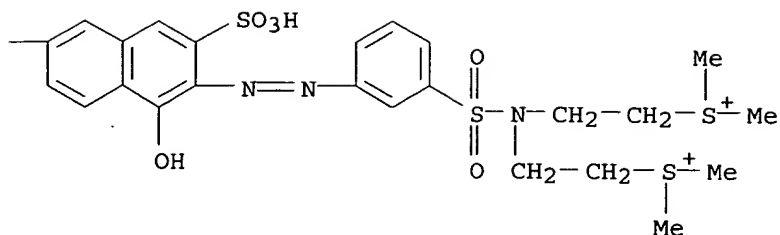
CRN 47919-45-9

CMF C49 H62 N8 O13 S8

PAGE 1-A



PAGE 1-B



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L46 ANSWER 14 OF 17 USPATFULL on STN  
 ACCESSION NUMBER: 1999:85346 USPATFULL  
 TITLE: Herbicidal mixtures  
 INVENTOR(S): Lichtner, Jr., Francis Thomas, Newark, DE, United States  
 PATENT ASSIGNEE(S): E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5928995		19990727
	WO 9634528		19961107
APPLICATION INFO.:	US 1997-945865		19971103 (8)
	WO 1996-US5951		19960429
			19971103 PCT 371 date
			19971103 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1995-5431	19950505
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Robinson, Allen J.	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
LINE COUNT:	414	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to herbicidal mixtures of triflusulfuron methyl and glyphosate, herbicidal compositions of said mixtures, and a method for the use of said mixtures to control undesired vegetation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 184355-14-4

(synergistic herbicidal mixture)

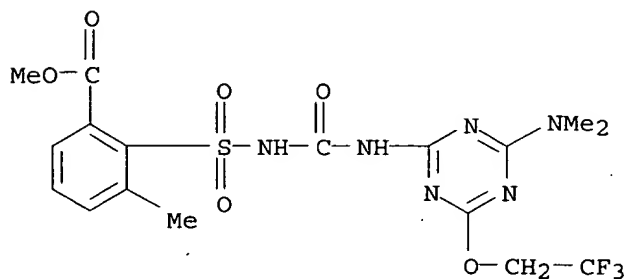
RN 184355-14-4 USPATFULL

CN Glycine, N-(phosphonomethyl)-, ion(1-), trimethylsulfonium, mixt. with methyl 2-[[[[[4-(dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl]-3-methylbenzoate (9CI) (CA INDEX NAME)

CM 1

CRN 126535-15-7

CMF C17 H19 F3 N6 O6 S



CM 2

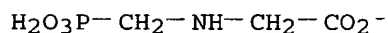
CRN 81591-81-3

CMF C3 H9 S . C3 H7 N O5 P

CM 3

CRN 81591-80-2

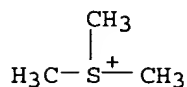
CMF C3 H7 N O5 P



CM 4

CRN 676-84-6

CMF C3 H9 S



L46 ANSWER 15 OF 17 USPATFULL on STN

ACCESSION NUMBER: 95:64893 USPATFULL

TITLE: Herbicidal composition comprising glyphosate and 1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-trifluoromethyl-2-pyridylsulfonyl)urea

INVENTOR(S): Sakashita, Nobuyuki, Shiga, Japan  
Yoshii, Hiroshi, Shiga, Japan  
Yoshida, Tsunezo, Shiga, Japan

PATENT ASSIGNEE(S): Honzawa, Shooichi, Shiga, Japan  
Kikugawa, Hiroshi, Shiga, Japan  
Ishihara Sangyo Kaisha, Ltd., Osaka, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5434123		19950718
APPLICATION INFO.:	US 1993-161458		19931206 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-923529, filed on 3 Aug 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-757052, filed on 9 Sep 1991, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1990-243252	19900913
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Clardy, S. Mark	
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	403	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A herbicidal composition is disclosed, comprising, as active ingredients, 1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-trifluoromethyl-2-pyridylsulfonyl)urea and an isopropylamine salt or trimethylsulfonium salt of N-(phosphonomethyl)glycine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 141563-83-9

(as herbicide, synergistic)

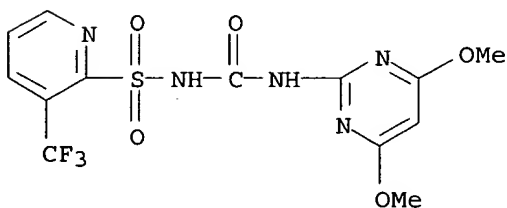
RN 141563-83-9 USPATFULL

CN Glycine, N-(phosphonomethyl)-, ion(1-), trimethylsulfonium, mixt. with N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(trifluoromethyl)-2-pyridinesulfonamide (9CI) (CA INDEX NAME)

CM 1

CRN 104040-78-0

CMF C13 H12 F3 N5 O5 S



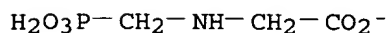
CM 2

CRN 81591-81-3

CMF C3 H9 S . C3 H7 N O5 P

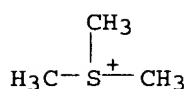
CM 3

CRN 81591-80-2  
CMF C3 H7 N O5 P



CM 4

CRN 676-84-6  
CMF C3 H9 S



L46 ANSWER 16 OF 17 USPATFULL on STN

ACCESSION NUMBER: 93:5396 USPATFULL

TITLE: Cyclohexanol derivatives, production and use thereof

INVENTOR(S): Kishimoto, Shoji, Takarazuka, Japan

Marui, Shogo, Suita, Japan

Fujita, Takeshi, Takarazuka, Japan

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Osaka, Japan  
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5180735		19930119
APPLICATION INFO.:	US 1990-575559		19900829 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1989-226514	19890831
	JP 1990-57752	19900308
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Raymond, Richard L.	
ASSISTANT EXAMINER:	Russell, Mark W.	
LEGAL REPRESENTATIVE:	Williams, Gregory D., Conlin, David G.	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	3345	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a compound of the formula: ##STR1##  
wherein A is halogen, N(O)mR.sup.1 R.sup.2, N.sup..sym. R.sup.1 R.sup.2  
R.sup.3 .multidot.X.sup..crlbar., S(O)nR.sup.1 or S.sup..sym.  
(O)mR.sup.1 R.sup.2 .multidot.X.sup..crlbar. where R.sup.1, R.sup.2  
and R.sup.3 are each optionally substituted hydrocarbon or heterocyclic  
group, X.sup..crlbar. is a counter anion; m is an integer of 0 or 1; n  
is an integer of 0 to 2; R.sup.1 and R.sup.2 may form a  
nitrogen-containing or a sulfur-containing heterocyclic ring, which may  
further form a condensed ring, with the adjacent nitrogen atom or sulfur

atom, and these nitrogen-containing or sulfur-containing heterocyclic rings may have substituents, Z is O or NR<sup>sup.4</sup> where R<sup>sup.4</sup> is hydrogen or an optionally substituted lower alkyl or aryl group, D is 2-methyl-1-propenyl group or isobutyl group, and E is hydrogen, an optionally substituted hydrocarbon or an optionally substituted acyl group; provided that, when A is chlorine, E is an optionally substituted hydrocarbon or acyl excepting dinitrobenzoyl, a salt thereof, production and use thereof.

The novel cyclohexanol derivatives of the present invention have angiogenesis inhibiting activity and anti-tumor activity, and they are used as antirheumatic agents, therapeutic agents of psoriasis, therapeutic agents of diabetic retinopathy and anti-tumor agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

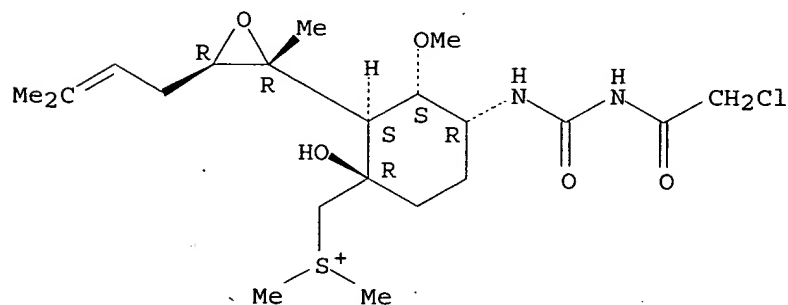
IT 135149-73-4P

(preparation of, as angiogenesis inhibitor and antitumor agent)

RN 135149-73-4 USPATFULL

CN Sulfonium, [[4-[[[(chloroacetyl)amino]carbonyl]amino]-1-hydroxy-3-methoxy-2-[2-methyl-3-(3-methyl-2-butenyl)oxiranyl]cyclohexyl]methyl]dimethyl-, iodide, [1R-[1 $\alpha$ ,2 $\alpha$ (2R\*,3R\*),3 $\beta$ ,4 $\beta$ ]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● I<sup>-</sup>

L46 ANSWER 17 OF 17 CAOLD COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: CA53:15039a CAOLD

TITLE: synthesis in the series of 2-acetylfuran

AUTHOR NAME: Saldabols, N.; Hillers, S.

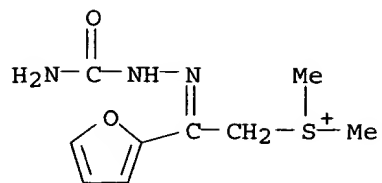
TITLE: synthesis of penicillic acid derivs.

AUTHOR NAME: Zugravescu, I.; Petrovanu, M.; Leonte, C.; Borcea, A.

IT 108127-74-8

RN 108127-74-8 CAOLD

CN (2-Furoylmethyl)dimethylsulfonium chloride, semicarbazone (6CI) (CA INDEX NAME)



●  $\text{Cl}^-$

# Beilstein<sup>structure</sup> search

Clardy 09/890086

11/02/2005

=> file beilstein

FILE 'BEILSTEIN' ENTERED AT 10:54:50 ON 02 NOV 2005

COPYRIGHT (c) 2005 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften  
licensed to Beilstein GmbH and MDL Information Systems GmbH

FILE LAST UPDATED ON OCTOBER 10, 2005

FILE COVERS 1771 TO 2005.

\*\*\* FILE CONTAINS 9,363,954 SUBSTANCES \*\*\*

>>>PLEASE NOTE: Reaction Data and substance data are stored in  
separate documents and can not be searched together in one query.  
Reaction data for BEILSTEIN compounds may be displayed  
immediately with the display codes PRE (preparations) and REA  
(reactions). A substance answer set retrieved after the search  
for a chemical name, a compounds with available reaction  
information by combining with PRE/FA, REA/FA or more generally  
with RX/FA. The BEILSTEIN Registry Number (BRN) is the link  
between a BEILSTEIN compound and belonging reactions. For mo  
detailed reaction searches BRNs can be searched as reaction  
partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

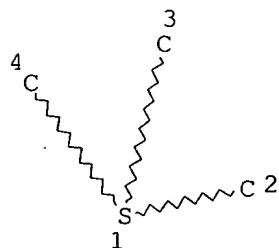
\*\*\*\*\*  
\* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. \*  
\* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE \*  
\* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE \*  
\* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. \*  
\* FOR PRICE INFORMATION SEE HELP COST \*  
\*\*\*\*\*

## NEW

\* PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE  
SEARCHED, SELECTED AND TRANSFERRED.  
\* NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES,  
ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A  
COMPOUND AT A GLANCE.

=> d stat que L49

L12 STR



## NODE ATTRIBUTES:

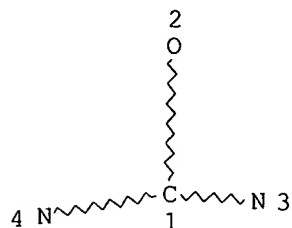
NSPEC IS C AT 1  
NSPEC IS RC AT 2  
NSPEC IS RC AT 3  
NSPEC IS RC AT 4  
DEFAULT MLEVEL IS ATOM  
MLEVEL IS CLASS AT 1 2 3 4  
DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 4

## STEREO ATTRIBUTES: NONE

L25 STR



## NODE ATTRIBUTES:

NSPEC IS C AT 1  
NSPEC IS C AT 2  
NSPEC IS C AT 3  
NSPEC IS C AT 4  
CONNECT IS E3 RC AT 1  
CONNECT IS E1 RC AT 2  
DEFAULT MLEVEL IS ATOM  
MLEVEL IS CLASS AT 1 2 3 4  
DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 4

## STEREO ATTRIBUTES: NONE

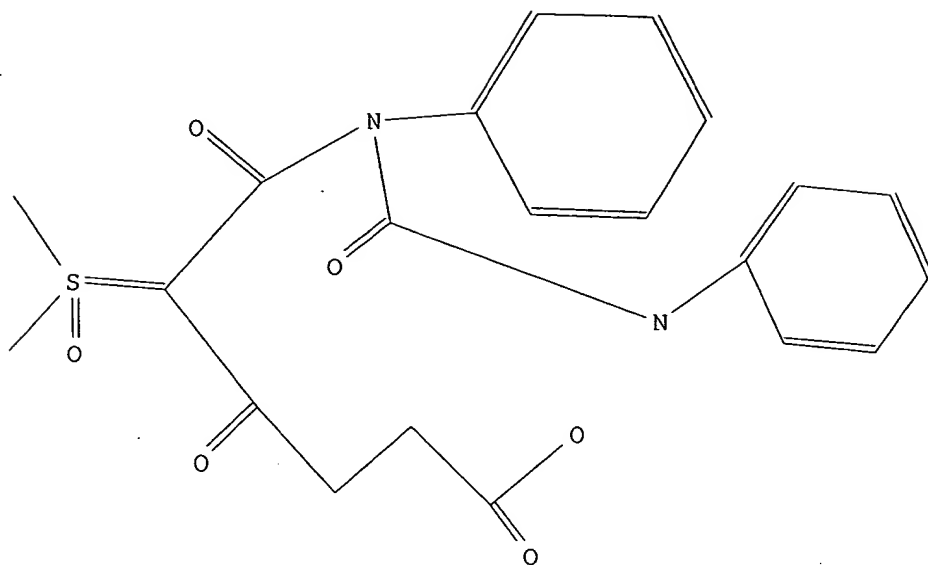
L47 2 SEA FILE=BEILSTEIN SSS FUL L25 AND L12  
L48 1 SEA FILE=BEILSTEIN ABB=ON PLU=ON L47 AND RN/FA  
L49 1 SEA FILE=BEILSTEIN ABB=ON PLU=ON L47 NOT (L48)

*this answer is  
included in  
multiFile answer  
set.  
It is the C40LD  
reference*

=> d ide allref L49 1

L49 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2005 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3075931
Chemical Name (CN):	Dimethyloxosulfonium-w-carboxypropionyl- (2,4-diphenyl-allophanyl)-methylid
Molec. Formula (MF):	C21 H22 N2 O6 S
Molecular Weight (MW):	430.47
Lawson Number (LN):	14131, 2613, 1762, 292
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	2784709
Tautomer ID (TAUTID):	2973474
Beilstein Citation (BSO):	5-12
Entry Date (DED):	1989/07/11
Update Date (DUPD):	1993/07/28



## Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
DED	Entry Date	1
DUPD	Update Date	1
IR	Infrared Spectrum	1
MP	Melting Point	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

## All References:

## ALLREF

1. Mukaiyama, T. et al., Bull.Chem.Soc.Jpn., CODEN: BCSJA8, 43, <1970>, 2566-2570

# AUTHOR SEARCH

Clardy 09/890086

11/02/2005

=> file caplus

FILE 'CAPLUS' ENTERED AT 10:38:29 ON 02 NOV 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 2 Nov 2005 VOL 143 ISS 19

FILE LAST UPDATED: 1 Nov 2005 (20051101/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que L36

L32	101	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	SCHNABEL G?/AU
L33	289	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	HAASE D?/AU
L34	325	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	MAIER T?/AU
L35	77	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	WURTZ J?/AU
L36	2	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L32 AND L33 AND L34 AND L35

=> d que L37

L32	101	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	SCHNABEL G?/AU
L33	289	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	HAASE D?/AU
L34	325	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	MAIER T?/AU
L35	77	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	WURTZ J?/AU
L37	16	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	(L32 AND ((L33 OR L34 OR L35))) OR (L33 AND ((L34 OR L35))) OR (L34 AND L35)

=> s L36 or L37

L44 16 L36 OR L37

=> d ibib abs hitind L44 1-16

L44 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:490251 CAPLUS

DOCUMENT NUMBER: 143:2632

TITLE: Concentrated oily suspensions of thienylsulfonamide herbicides

INVENTOR(S): Schnabel, Gerhard; Haase, Detlev; Deckwer, Roland

PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005051082	A1	20050609	WO 2004-EP13154	20041119
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2004054364	A1	20040701	WO 2003-EP313389	20031128
W:	AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GE, HR, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, RU, SC, SG, SY, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.:  
 WO 2003-EP13389 A 20031128  
 DE 2004-102004025220A 20040522  
 DE 2002-10258216 A 20021213  
 DE 2003-10317779 A 20030416  
 DE 2003-10351233 A 20031103

AB The invention relates to a concentrated oily suspension containing thienylsulfonamide herbicides, optionally safened, and one or several types of organic solvents, such as hydrocarbons, polar solvents and fatty acid esters.

IC ICM A01N047-38  
 ICS A01N025-04; A01N043-80; A01N043-56; A01N041-06; A01N025-32; A01N025-30; A01N025-08; A01N025-02

CC 5-3 (Agrochemical Bioregulators)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L44 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:405321 CAPLUS

DOCUMENT NUMBER: 142:425361

TITLE: Safened herbicidal composition

INVENTOR(S): Ziemer, Frank; Schnabel, Gerhard; Haase, Detlev; Deckwer, Roland; Rosinger, Christopher; Feist, David

PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany

SOURCE: PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

-----

WO 2005041654	A2	20050512	WO 2004-EP11893	20041021
WO 2005041654	A3	20050721		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10351234	A1	20050616	DE 2003-10351234	20031103
DE 10355846	A1	20050707	DE 2003-10355846	20031126
US 2005113254	A1	20050526	US 2004-976217	20041028

PRIORITY APPLN. INFO.: DE 2003-10351234 A 20031103  
DE 2003-10355846 A 20031126

AB A safened herbicidal composition comprises a sulfonylurea herbicide (metsulfuron, thifensulfuron, tribenuron, chlorsulfuron or their salts or esters) and a safener (mefenpyr, isoxadifen, cloquintocet, fenchlorazole or their salts or esters).

IC ICM A01N

CC 5-3 (Agrochemical Bioregulators)

L44 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:99117 CAPLUS

DOCUMENT NUMBER: 142:171502

TITLE: Liquid herbicide formulations containing acetolactate synthase inhibitors

INVENTOR(S): Deckwer, Roland; Haase, Detlev; Krause, Hans-peter; Schnabel, Gerhard

PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany

SOURCE: U.S. Pat. Appl. Publ., 30 pp.  
CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005026787	A1	20050203	US 2004-901422	20040728
DE 10334301	A1	20050303	DE 2003-10334301	20030728
WO 2005011382	A1	20050210	WO 2004-EP7835	20040715

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2003-10334301 A 20030728

AB A liquid formulation with high chemical and phys. stability and high biol.

effectiveness and crop plant compatibility comprises (1)  $\geq 1$  herbicidally active compound from the group of the acetolactate synthase (ALS) inhibitors, (2)  $\geq 1$  organic solvent, and (3)  $\geq 1$  inorg. salt. Preferred ALS inhibitors include triazolopyrimidinesulfonamides, sulfonylaminocarbonyltriazolinones, and sulfonylureas.

IC ICM A01N047-36  
ICS A01N043-653; A01N025-04; A01N025-16  
INCL 504211000; 504272000; 504364000  
CC 5-3 (Agrochemical Bioregulators)

L44 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:99116 CAPLUS  
DOCUMENT NUMBER: 142:192754  
TITLE: Oil suspension concentrate containing diflufenican  
INVENTOR(S): Deckwer, Roland; Haase, Detlev; Krause, Hans-Peter; Schnabel, Gerhard  
PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany  
SOURCE: U.S. Pat. Appl. Publ., 19 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005026786	A1	20050203	US 2004-900848	20040728
DE 10334300	A1	20050303	DE 2003-10334300	20030728
WO 2005011378	A1	20050210	WO 2004-EP7836	20040715

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2003-10334300 A 20030728

AB An oil suspension concentrate suitable for use in crop protection comprises (a) the herbicidally active compound diflufenican and (b) one or more solvents from the group of the hydrocarbons. Optionally, the oil suspension concentrate may contain addnl. components, for example, acetolactate synthase inhibitors and safeners.

IC ICM A01N047-36  
ICS A01N043-653; A01N025-04; A01N025-16  
INCL 504211000; 504272000; 504364000  
CC 5-3 (Agrochemical Bioregulators)

L44 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:718257 CAPLUS  
DOCUMENT NUMBER: 141:220326  
TITLE: Two-step method for producing water-dispersible agrochemical granules  
INVENTOR(S): Krause, Hans-Peter; Schnabel, Gerhard; Deckwer, Roland; Haase, Detlev; Polednie, Thomas; Reinig, Dieter

PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany  
 SOURCE: PCT Int. Appl., 22 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004073403	A1	20040902	WO 2004-EP1255	20040211
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI, NI, NO RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10307078	A1	20040909	DE 2003-10307078	20030219
CA 2516416	AA	20040902	CA 2004-2516416	20040211
PRIORITY APPLN. INFO.:			DE 2003-10307078	A 20030219
			WO 2004-EP1255	W 20040211
AB	A method for producing water-dispersible agrochem. granules involves Step A, which consists of spraying $\geq 2$ sep. liquid streams into an agglomeration device and Step B, consisting of agglomeration. At least one of the liquid streams in Step A contains one or more agrochem. active substances with a m.p. of $\geq 120^\circ$ , and at least one of the liquid streams contains one or more agrochem. active substances with a m.p. of $< 120^\circ$ and $\geq 1$ carrier. Thus, flowable granules with a dispersibility of 87% (CIPAC method MT 174) were obtained by spraying (1) a liquid containing diflufenican, kaolin, Morwet D, Hostapur OSB, Kuviskol K30, and antifoaming powder in water, mesosulfuron-Me sodium salt, and iodosulfuron-methyl-sodium and (2) a liquid containing Sipernat 50S in water, mefenpyr-diethyl, Emulsogen 3510, and Phenylsulfonat Ca in Solvesso 200ND through a 3-component nozzle into an agglomeration apparatus			
IC	ICM A01N025-14			
	ICS A01N043-56; A01N047-36; B01J002-02; A01N043-40; A01N037-40			
CC	5-3 (Agrochemical Bioregulators)			

L44. ANSWER 6 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:531276 CAPLUS  
 DOCUMENT NUMBER: 141:49013  
 TITLE: Herbicidal oil suspension concentrate  
 INVENTOR(S): Deckwer, Roland; Haase, Detlev; Krause, Hans-Peter; Schnabel, Gerhard  
 PATENT ASSIGNEE(S): Bayer Cropscience GmbH, Germany  
 SOURCE: PCT Int. Appl., 113 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

-----  
WO 2004054364      A1      20040701      WO 2003-EP13389      20031128  
W: AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU,  
DM, DZ, EC, EG, GD, GE, HR, ID, IL, IN, IS, JP, KG, KP, KR, KZ,  
LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NI, NO, NZ, OM, PG,  
PH, PL, RU, SC, SG, SY, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
DE 10258216      A1      20040708      DE 2002-10258216      20021213  
DE 10317779      A1      20041104      DE 2003-10317779      20030416  
DE 10351233      A1      20050602      DE 2003-10351233      20031103  
CA 2509586      AA      20040701      CA 2003-2509586      20031128  
EP 1571908      A1      20050914      EP 2003-813102      20031128  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
US 2005032647      A1      20050210      US 2003-734828      20031212  
WO 2005051082      A1      20050609      WO 2004-EP13154      20041119  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,  
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO,  
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
NE, SN, TD, TG  
US 2005233906      A1      20051020      US 2004-997627      20041124  
PRIORITY APPLN. INFO.:      DE 2002-10258216      A      20021213  
DE 2003-10317779      A      20030416  
DE 2003-10351233      A      20031103  
WO 2003-EP13389      W      20031128  
DE 2004-102004025220A      20040522  
AB      The invention relates to an oil suspension concentrate containing a sulfonamide  
herbicide in suspended form, safener, organic solvent and sulfosuccinate.  
IC      ICM      A01N047-36  
ICS      A01N047-38; A01N025-04; A01N043-56; A01N025-32; A01N025-30;  
A01N025-02  
CC      5-3 (Agrochemical Bioregulators)  
REFERENCE COUNT:      6      THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L44      ANSWER 7 OF 16      CAPLUS      COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER:      2004:531272      CAPLUS  
DOCUMENT NUMBER:      141:49011  
TITLE:      Herbicide microemulsion concentrates  
INVENTOR(S):      Frisch, Gerhard; Haase, Detlev; Maier,  
Thomas; Schnabel, Gerhard  
PATENT ASSIGNEE(S):      Bayer Cropscience GmbH, Germany  
SOURCE:      PCT Int. Appl., 45 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE:      Patent  
LANGUAGE:      German  
FAMILY ACC. NUM. COUNT:      1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004054360	A2	20040701	WO 2003-EP13693	20031204
WO 2004054360	A3	20041007		
W: AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GE, HR, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, RU, SC, SG, SY, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10258867	A1	20040708	DE 2002-10258867	20021217
CA 2510028	AA	20040701	CA 2003-2510028	20031204
EP 1575357	A2	20050921	EP 2003-789129	20031204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004132621	A1	20040708	US 2003-739708	20031217
PRIORITY APPLN. INFO.: DE 2002-10258867 A 20021217 WO 2003-EP13693 W 20031204				
AB The invention relates to a microemulsion concentrate containing a herbicide, nonalc. organic solvent(s), anionic surfactant(s), and nonionic surfactant(s). IC ICM A01N025-04 CC 5-3 (Agrochemical Bioregulators)				

L44 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:59567 CAPLUS  
 DOCUMENT NUMBER: 140:106970  
 TITLE: Solid adjuvants for agrochemicals comprising surfactants and fillers  
 INVENTOR(S): Schnabel, Gerhard; Maier, Thomas; Thuaud, Caroline; Krause, Hans-peter; Bickers, Udo  
 PATENT ASSIGNEE(S): Germany  
 SOURCE: U.S. Pat. Appl. Publ., 17 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004013678	A1	20040122	US 2003-619065	20030711
DE 10231615	A1	20040205	DE 2002-10231615	20020712
CA 2492679	AA	20040122	CA 2003-2492679	20030630
WO 2004006671	A1	20040122	WO 2003-EP6933	20030630
W: AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GE, HR, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, RU, SC, SG, SY, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
BR 2003012628	A	20050419	BR 2003-12628	20030630
EP 1523236	A1	20050420	EP 2003-763668	20030630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

PRIORITY APPLN. INFO.: DE 2002-10231615 A 20020712  
WO 2003-EP6933 W 20030630

OTHER SOURCE(S): MARPAT 140:106970

AB The present invention relates to a solid adjuvant comprising (a) one or more surfactants of the formula Ar-O-(CHR1-CHR2-O-)y-R3 (Ar = aryl, substituted by at least two (C1-C30)alkyls; R1 = H or (C1-C6)alkyl; R2 = H or (C1-C6)alkyl; R3 = H, (un)substituted (C1-C30) hydrocarbon, sulfonate, phosphonate, or acyl; y = 1-100), and (b) one or more fillers. The adjuvant is particularly suitable in the field of crop protection.

IC ICM A61K039-00

INCL 424184100

CC 5-6 (Agrochemical Bioregulators)

L44 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:669443 CAPLUS

DOCUMENT NUMBER: 137:197000

TITLE: Stable agrochemical formulations containing acetolactate synthase inhibitors

INVENTOR(S): Maier, Thomas; Schnabel, Gerhard; Haase, Detlev; Wuertz, Jochen

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany

SOURCE: Ger. Offen., 16 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10108472	A1	20020905	DE 2001-10108472	20010222
CA 2438992	AA	20020906	CA 2002-2438992	20020119
WO 2002067676	A1	20020906	WO 2002-EP500	20020119
W:	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SG, SI, SK, TJ, TM, TN, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1363490	A1	20031126	EP 2002-715454	20020119
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2002007440	A	20040302	BR 2002-7440	20020119
JP 2004518749	T2	20040624	JP 2002-567058	20020119
CN 1529549	A	20040915	CN 2002-805287	20020119
NZ 527671	A	20050624	NZ 2002-527671	20020119
ZA 2003005991	A	20040531	ZA 2003-5991	20030804
US 2004097378	A1	20040520	US 2003-468190	20031218

PRIORITY APPLN. INFO.: DE 2001-10108472 A 20010222  
WO 2002-EP500 W 20020119

OTHER SOURCE(S): MARPAT 137:197000

AB Liquid herbicide formulations contain (1)  $\geq 1$  alkyl ester of polycarboxylic acids and (2)  $\geq 1$  acetolactate synthase (ALS) inhibitor. Thus, 1.1 g iodosulfuron-Me sodium salt was added to 98.9 g di-Me adipate and agitated until the active ingredient was dissolved. The formulation was storage stable at 40° for >2 mo.

IC ICM A01N047-36

## CC 5-3 (Agrochemical Bioregulators)

L44 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:935334 CAPLUS

DOCUMENT NUMBER: 136:33336

TITLE: High-activity herbicidal compositions

INVENTOR(S): Wuertz, Jochen; Kocur, Jean; Krause, Hans-Peter;

Martinez de Una, Julio; Haase, Detlev;

Bickers, Udo; Schnabel, Gerhard

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany; Bayer CropScience GmbH

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

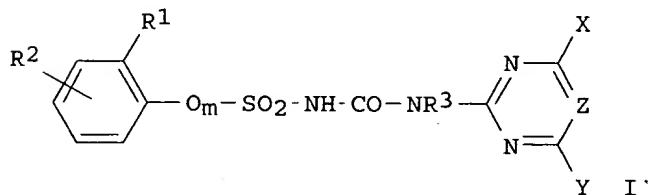
FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001097615	A2	20011227	WO 2001-EP6417	20010606
WO 2001097615	A3	20020418		
WO 2001097615	C2	20031030		
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10029169	A1	20020103	DE 2000-10029169	20000619
CA 2417325	AA	20021218	CA 2001-2417325	20010606
EP 1303188	A2	20030423	EP 2001-936436	20010606
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001011809	A	20030520	BR 2001-11809	20010606
JP 2004508294	T2	20040318	JP 2002-503101	20010606
US 2002091066	A1	20020711	US 2001-882441	20010615
US 6743754	B2	20040601		
ZA 2002010279	A	20031105	ZA 2002-10279	20021219
PRIORITY APPLN. INFO.:			DE 2000-10029169	A 20000619
			WO 2001-EP6417	W 20010606

OTHER SOURCE(S): MARPAT 136:33336

GI



AB The title compns. comprise a sulfonylurea derivative I [R1 = C2-4 alkoxy or CORa; Ra = OH, C1-6 alkoxy or NRbRc; Rb, Rc = H or C1-6 alkyl; R2 = H, halo or AnNRdRe; A = CRfRg; Rf, Rg = H or C1-6 alkyl; Rd = H or C1-6 alkyl; Re = H, C1-6 alkyl or acyl; RdRe = heterocyclyl; R3 = H or C1-6 alkyl; m, n = 0 or 1; X, Y = (un)substituted C1-6 alkyl, C1-6 alkoxy or C1-6 alkylthio; Z = CH or N] and/or their salts and one a surfactant containing at least 10 alkylene oxide units as a structural element.

IC ICM A01N047-36

ICS A01N025-30

CC 5-3 (Agrochemical Bioregulators)

L44 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:832998 CAPLUS

DOCUMENT NUMBER: 135:354182

TITLE: Sustained-release combinations of carrier-incorporated pesticides

INVENTOR(S): Krause, Hans-Peter; **Schnabel, Gerhard**; Frisch, Gerhard; Wuertz, Jochen; Bickers, Udo; Hacker, Erwin; Auler, Thomas; Melendez, Alvaro; **Haase, Detlev**

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001084928	A1	20011115	WO 2001-EP5099	20010505
W:			AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
DE 10022989	A1	20011122	DE 2000-10022989	20000511
CA 2408350	AA	20021106	CA 2001-2408350	20010505
EP 1282353	A1	20030212	EP 2001-945090	20010505
EP 1282353	B1	20050831		
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR	
BR 2001010738	A	20030311	BR 2001-10738	20010505
JP 2003532652	T2	20031105	JP 2001-581604	20010505
EP 1541022	A1	20050615	EP 2004-28153	20010505
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR	
AT 303061	E	20050915	AT 2001-945090	20010505
US 2002055436	A1	20020509	US 2001-853313	20010510
PRIORITY APPLN. INFO.:			DE 2000-10022989	A 20000511
			EP 2001-945090	A3 20010505
			WO 2001-EP5099	W 20010505

AB The invention relates to the use of a combination of a pesticide and a solid matrix material coating in order to prevent antagonistic interactions in a mixture that consists of the coated pesticide and at least one further pesticide. Preferred formulations that comprise herbicides

combined with an matrix material together with a safener and/or a growth regulator. The formulations according to the invention allow the suppression of antagonistic interactions between different active substances.

IC ICM A01N025-28

ICS A01N043-76; A01N043-80; A01N043-56; A01N057-20; A01N047-36;  
A01N043-76; A01N047-36; A01N043-56; A01N039-04; A01N037-34;  
A01N057-20; A01N043-90; A01N043-80; A01N041-10; A01N047-36;  
A01N043-80; A01N043-76; A01N043-70; A01N043-56

CC 5-4 (Agrochemical Bioregulators)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L44 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:816370 CAPLUS

DOCUMENT NUMBER: 135:340483

TITLE: Stable liquid herbicide formulations

INVENTOR(S): Wuertz, Jochen; Maier, Thomas;  
Schnabel, Gerhard; Haase, Detlev

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany

SOURCE: PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001082693	A2	20011108	WO 2001-EP3879	20010405
WO 2001082693	A3	20020314		
W:	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 10020671	A1	20011108	DE 2000-10020671	20000427
CA 2407269	AA	20021025	CA 2001-2407269	20010405
EP 1278416	A2	20030129	EP 2001-938088	20010405
EP 1278416	B1	20040407		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001010406	A	20030211	BR 2001-10406	20010405
JP 2003531838	T2	20031028	JP 2001-579586	20010405
AT 263487	E	20040415	AT 2001-938088	20010405
PT 1278416	T	20040831	PT 2001-938088	20010405
ES 2219527	T3	20041201	ES 2001-1938088	20010405
US 2002016263	A1	20020207	US 2001-841820	20010425
ZA 2002008656	A	20031020	ZA 2002-8656	20021025
PRIORITY APPLN. INFO.:			DE 2000-10020671	A 20000427
			WO 2001-EP3879	W 20010405

OTHER SOURCE(S): MARPAT 135:340483

AB The invention relates to stable liquid herbicide formulations containing one or more derivs. of polycarboxylic acids and one or more acetolactate synthase-inhibiting herbicides. The polycarboxylic acids are sulfosuccinates and/or gemini surfactants.

IC ICM A01N025-00  
CC 5-3 (Agrochemical Bioregulators)

L44 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:686077 CAPLUS  
DOCUMENT NUMBER: 133:248392  
TITLE: Liquid surfactant/solvent systems for pesticide formulations  
INVENTOR(S): Wuertz, Jochen; Maier, Thomas; Schnabel, Gerhard; Johann, Gerhard  
PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany  
SOURCE: Ger. Offen., 14 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19913036	A1	20000928	DE 1999-19913036	19990323
CA 2366645	AA	20000928	CA 2000-2366645	20000313
WO 2000056146	A1	20000928	WO 2000-EP2207	20000313
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, DZ, EE, GE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1164842	A1	20020102	EP 2000-909356	20000313
EP 1164842	B1	20040218		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200102652	T2	20020422	TR 2001-200102652	20000313
JP 2002539225	T2	20021119	JP 2000-606064	20000313
EE 200100496	A	20030217	EE 2001-496	20000313
AT 259589	E	20040315	AT 2000-909356	20000313
PT 1164842	T	20040730	PT 2000-909356	20000313
ES 2215616	T3	20041016	ES 2000-909356	20000313
ZA 2001007237	A	20020911	ZA 2001-7237	20010831
BG 105908	A	20020628	BG 2001-105908	20010918
HR 2001000691	A1	20021031	HR 2001-691	20010921
US 2004214722	A1	20041028	US 2002-937166	20020429
US 2005084507	A1	20050421	US 2004-985606	20041110
PRIORITY APPLN. INFO.:			DE 1999-19913036	A 19990323
			WO 2000-EP2207	W 20000313
			US 2002-937166	A1 20020429

AB The title systems comprise aromatic surfactants, such as Ph alkyl ethers or alkoxyated phenols, and water-insol. esterified organic phosphates and/or phosphonates as solvents.

IC ICM A01N047-20  
ICS A01N043-12

CC 5-4 (Agrochemical Bioregulators)

L44 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:534936 CAPLUS  
DOCUMENT NUMBER: 133:131179

TITLE: Formulation of sulfonylurea herbicides and plant growth regulators  
 INVENTOR(S): Schnabel, Gerhard; Haase, Detlev; Maier, Thomas; Martinez de Una, Julio; Wurtz, Jochen  
 PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany  
 SOURCE: PCT Int. Appl., 62 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000044227	A1	20000803	WO 2000-EP469	20000122
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19903064	A1	20001005	DE 1999-19903064	19990127
DE 19963383	A1	20010705	DE 1999-19963383	19991228
CA 2360624	AA	20000803	CA 2000-2360624	20000122
BR 2000007772	A	20011030	BR 2000-7772	20000122
EP 1158858	A1	20011205	EP 2000-906217	20000122
EP 1158858	B1	20040407		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002535345	T2	20021022	JP 2000-595540	20000122
AU 763467	B2	20030724	AU 2000-27981	20000122
AT 263488	E	20040415	AT 2000-906217	20000122
ES 2218128	T3	20041116	ES 2000-906217	20000122
PRIORITY APPLN. INFO.:			DE 1999-19903064	A 19990127
			DE 1999-19963383	A 19991228
			WO 2000-EP469	W 20000122

OTHER SOURCE(S): MARPAT 133:131179

AB The invention relates to formulations containing (a) at least one phosphonium or sulfonium salt of a sulfonylurea, wherein the phosphonium and sulfonium cation of the salt has at least one substituent that is not hydrogen, and (b) conventional auxiliaries and additives.

IC ICM A01N047-38

ICS A01N047-34; A01N047-36; A01N025-30; C11D001-60

CC 5-3 (Agrochemical Bioregulators)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L44 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:534935 CAPLUS

DOCUMENT NUMBER: 133:131178

TITLE: Herbicidal formulation of sulfonylurea ammonium salts

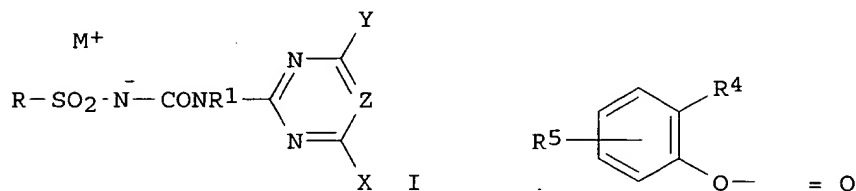
INVENTOR(S): Schnabel, Gerhard; Haase, Detlev; Maier, Thomas; Martinez de Una, Julio; Wurtz, Jochen

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany

SOURCE: PCT Int. Appl., 85 pp.

DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000044226	A1	20000803	WO 2000-EP470	20000122
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19903064	A1	20001005	DE 1999-19903064	19990127
DE 19963395	A1	20010705	DE 1999-19963395	19991228
PRIORITY APPLN. INFO.:			DE 1999-19903064	A 19990127
			DE 1999-19963395	A 19991228
OTHER SOURCE(S):	MARPAT 133:131178			
GI				



AB The invention relates to formulations containing (a) at least one ammonium salt of a sulfonylurea, wherein the ammonium cation of the salt has at least one substituent that is not hydrogen, and (b) conventional auxiliary agents and additives. The sulfonylurea ammonium salts are I [R = R<sub>2</sub>SO<sub>2</sub>NR<sub>3</sub>, Q, etc.; R<sub>1</sub> = H, alkyl, etc.; R<sub>2</sub>, R<sub>3</sub> = (un)substituted (cyclo)alkyl, alkenyl or alkynyl; R<sub>4</sub> = halo, (un)substituted alkyl, alkenyl, alkynyl, alkoxy, etc.; R<sub>5</sub> = H, halo, (un)substituted alkyl, etc.; X, Y = halo, (un)substituted alkyl, alkoxy, mercaptoalkyl, etc.; Z = N, CH, CF, CCl, CBr or CI; M<sup>+</sup> = ammonium ion].

IC ICM A01N047-36

ICS A01N025-30; C11D001-62

CC 5-3 (Agrochemical Bioregulators)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L44 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:403073 CAPLUS

DOCUMENT NUMBER: 119:3073

TITLE: Herbicidal microemulsion concentrates

INVENTOR(S) : Heinrich, Rudolf; Haase, Detlev; Maier, Thomas

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 533057	A1	19930324	EP 1992-115499	19920910
EP 533057	B1	19971229		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT				
DE 4135587	A1	19930506	DE 1991-4135587	19911029
AT 161389	E	19980115	AT 1992-115499	19920910
ES 2112284	T3	19980401	ES 1992-115499	19920910
CA 2078092	AA	19930315	CA 1992-2078092	19920911
CA 2078092	C	20031209		
AU 9223532	A1	19930318	AU 1992-23532	19920911
AU 660705	B2	19950706		
ZA 9206941	A	19930428	ZA 1992-6941	19920911
JP 05201807	A2	19930810	JP 1992-243767	19920911
RU 2105475	C1	19980227	RU 1992-5052479	19920911
SK 280357	B6	19991210	SK 1992-2805	19920911
CZ 288549	B6	20010711	CZ 1992-2805	19920911
HU 63299	A2	19930830	HU 1992-2930	19920914
HU 213032	B	19970128		
US 5733847	A	19980331	US 1995-450810	19950525
PRIORITY APPLN. INFO.:				
			DE 1991-4130707	A 19910914
			DE 1991-4135587	A 19911029
			CS 1992-2805	A 19920911
			US 1992-943502	B1 19920911
			US 1994-259555	B1 19940614

AB Environmentally safe microemulsion concs. comprise a phenoxyphenoxy or heteroaryloxyphenoxycarboxylate herbicide, a dispersing agent (alkoxylated fatty alc. or polyoxypropylene block copolymer), an emulsifier or wetting agent such as Ca dodecylbenzenesulfonate, fatty acid polyglycol esters, ethoxylated nonylphenol, or alkanol polyglycol ether, and an organic solvent. The compns. may also contain 1-aryl-3-alkoxycarbonyl-5-alkyl-1,2,4-triazoles, 1-aryl-5-alkoxycarbonylpyrazoline-3-carboxylates, and 8-quinolinoxyacetates. A composition comprised Fenoxaprop-P-Et 4.3, aromatic solvent 35.0, 1-(2,4-dichlorophenyl)-3-ethoxycarbonyl-5-trichlorophenyl-1,2,4-triazole 1.1, ethoxylated nonylphenol 16.6, C12-18 fatty acid polyglycol ester 8.0, and Ca dodecylbenzenesulfonate (70% BuOH solution) 8.0% by weight as the organic phase. This was added to a phase comprising butoxypolyoxypropylene polyoxyethylene ether 4.0, ethoxylated soybean oil 3.0, glycerol 4.0, and water 16.0%.

IC ICM A01N025-04

ICS A01N043-76

ICI A01N043-76, A01N025-04

CC 5-3 (Agrochemical Bioregulators)

# Search history

Clardy 09/890086

11/02/2005

> d his full

(FILE 'HOME' ENTERED AT 09:21:24 ON 02 NOV 2005)

FILE 'CAPLUS' ENTERED AT 09:21:35 ON 02 NOV 2005

L1 FILE 'REGISTRY' ENTERED AT 09:21:36 ON 02 NOV 2005  
STRUCTURE UPLOADED

FILE 'STNGUIDE' ENTERED AT 09:22:10 ON 02 NOV 2005

L2 FILE 'REGISTRY' ENTERED AT 09:23:08 ON 02 NOV 2005  
STRUCTURE UPLOADED

L3 0 SEA SSS SAM (L1 AND L2)

FILE 'STNGUIDE' ENTERED AT 09:24:01 ON 02 NOV 2005

L4 FILE 'REGISTRY' ENTERED AT 09:24:54 ON 02 NOV 2005  
19 SEA SSS SAM L2

FILE 'STNGUIDE' ENTERED AT 09:26:38 ON 02 NOV 2005

L5 FILE 'REGISTRY' ENTERED AT 09:27:21 ON 02 NOV 2005  
STRUCTURE UPLOADED

L6 1 SEA SSS SAM (L2 AND L5)  
D SCA

L7 FILE 'CAPLUS' ENTERED AT 09:28:17 ON 02 NOV 2005  
32 SEA ABB=ON PLU=ON L4

FILE 'REGISTRY' ENTERED AT 09:28:47 ON 02 NOV 2005

FILE 'STNGUIDE' ENTERED AT 09:28:48 ON 02 NOV 2005

L8 FILE 'REGISTRY' ENTERED AT 09:31:17 ON 02 NOV 2005  
STRUCTURE UPLOADED

L9 0 SEA SSS SAM L2 AND L8

FILE 'STNGUIDE' ENTERED AT 09:32:36 ON 02 NOV 2005

FILE 'CAPLUS' ENTERED AT 09:33:30 ON 02 NOV 2005  
E US2001-890086/APPS

L10 1 SEA ABB=ON PLU=ON WO2000-EP469/APPS  
D SCA TI  
SEL RN

L11 FILE 'REGISTRY' ENTERED AT 09:35:06 ON 02 NOV 2005  
3 SEA ABB=ON PLU=ON (286842-51-1/BI OR 286842-52-2/BI OR  
286842-54-4/BI)  
D SCA

FILE 'STNGUIDE' ENTERED AT 09:36:54 ON 02 NOV 2005

FILE 'REGISTRY' ENTERED AT 09:40:18 ON 02 NOV 2005

L12 STRUCTURE UPLOADED

L13 0 SEA SSS SAM L1 AND L12

L14 50 SEA SSS SAM L12

L15 0 SEA SSS SAM L8 AND L12  
D SCA L11

FILE 'STNGUIDE' ENTERED AT 09:46:43 ON 02 NOV 2005

FILE 'REGISTRY' ENTERED AT 09:48:19 ON 02 NOV 2005

L16 STRUCTURE UPLOADED  
L17 0 SEA SSS SAM L16 AND L12  
L18 STRUCTURE UPLOADED  
L19 0 SEA SSS SAM L18 AND L12

FILE 'STNGUIDE' ENTERED AT 09:52:02 ON 02 NOV 2005

FILE 'REGISTRY' ENTERED AT 09:53:48 ON 02 NOV 2005

L20 STRUCTURE UPLOADED  
L21 0 SEA SSS SAM L20  
L22 0 SEA SSS SAM L18 AND L12

FILE 'STNGUIDE' ENTERED AT 09:56:01 ON 02 NOV 2005

FILE 'REGISTRY' ENTERED AT 09:58:30 ON 02 NOV 2005

L23 STRUCTURE UPLOADED  
L24 0 SEA SSS SAM L23 AND L12  
L25 STRUCTURE UPLOADED  
L26 1 SEA SSS SAM L25 AND L12  
D SCA

FILE 'CAPLUS' ENTERED AT 10:03:16 ON 02 NOV 2005

L27 0 SEA ABB=ON PLU=ON L26

FILE 'REGISTRY' ENTERED AT 10:04:40 ON 02 NOV 2005

L28 22 SEA SSS FUL L25 AND L12  
D SCA

FILE 'CAPLUS' ENTERED AT 10:08:31 ON 02 NOV 2005

L29 13 SEA ABB=ON PLU=ON L28

FILE 'REGISTRY' ENTERED AT 10:11:33 ON 02 NOV 2005

SAVE L28 CLA086STG1B2/A  
L30 ANALYZE PLU=ON L28 1- LC : 9 TERMS  
D  
L31 1 SEA ABB=ON PLU=ON L28 AND BEILSTEIN/LC  
D SCA  
D IDE

FILE 'STNGUIDE' ENTERED AT 10:17:40 ON 02 NOV 2005

FILE 'CAPLUS' ENTERED AT 10:27:36 ON 02 NOV 2005

L32 101 SEA ABB=ON PLU=ON SCHNABEL G?/AU  
L33 289 SEA ABB=ON PLU=ON HAASE D?/AU  
L34 325 SEA ABB=ON PLU=ON MAIER T?/AU  
L35 77 SEA ABB=ON PLU=ON WURTZ J?/AU  
L36 2 SEA ABB=ON PLU=ON L32 AND L33 AND L34 AND L35  
L37 16 SEA ABB=ON PLU=ON (L32 AND ((L33 OR L34 OR L35))) OR (L33  
AND ((L34 OR L35))) OR (L34 AND L35)  
L38 1 SEA ABB=ON PLU=ON L29 AND L37  
SEL RN L36

FILE 'REGISTRY' ENTERED AT 10:31:15 ON 02 NOV 2005

L39 9 SEA ABB=ON PLU=ON (286838-52-6/BI OR 286838-53-7/BI OR  
286838-55-9/BI OR 286838-56-0/BI OR 286838-58-2/BI OR 286838-59

L40 -3/BI OR 286842-51-1/BI OR 286842-52-2/BI OR 286842-54-4/BI  
6 SEA ABB=ON PLU=ON L39 NOT L11  
D SCA

FILE 'CAPLUS' ENTERED AT 10:33:01 ON 02 NOV 2005

L41 3 SEA ABB=ON PLU=ON L39  
L42 1 SEA ABB=ON PLU=ON L41 NOT L36  
L43 0 SEA ABB=ON PLU=ON L42 AND L29

FILE 'CAPLUS' ENTERED AT 10:38:29 ON 02 NOV 2005  
D QUE L36  
D QUE L37

L44 16 SEA ABB=ON PLU=ON L36 OR L37  
D IBIB ABS HITIND L44 1-16

FILE 'CAPLUS, TOXCENTER, USPATFULL, CAOLD' ENTERED AT 10:43:44 ON 02 NOV 2005

L45 18 SEA ABB=ON PLU=ON L28

FILE 'REGISTRY' ENTERED AT 10:44:16 ON 02 NOV 2005

FILE 'CAPLUS, TOXCENTER, USPATFULL, CAOLD' ENTERED AT 10:44:37 ON 02 NOV 2005

L46 D STAT QUE L45  
17 DUP REM L45 (1 DUPLICATE REMOVED)  
ANSWERS '1-13' FROM FILE CAPLUS  
ANSWERS '14-16' FROM FILE USPATFULL  
ANSWER '17' FROM FILE CAOLD

FILE 'STNGUIDE' ENTERED AT 10:45:05 ON 02 NOV 2005

FILE 'CAPLUS, USPATFULL, CAOLD' ENTERED AT 10:46:11 ON 02 NOV 2005  
D L46 IBIB ABS HITSTR 1-17

FILE 'STNGUIDE' ENTERED AT 10:46:19 ON 02 NOV 2005

FILE 'STNGUIDE' ENTERED AT 10:50:23 ON 02 NOV 2005

FILE 'MARPAT' ENTERED AT 10:51:10 ON 02 NOV 2005

FILE 'BEILSTEIN' ENTERED AT 10:52:14 ON 02 NOV 2005

L47 2 SEA SSS FUL L25 AND L12  
L48 1 SEA ABB=ON PLU=ON L47 AND RN/FA  
L49 1 SEA ABB=ON PLU=ON L47 NOT L48

FILE 'BEILSTEIN' ENTERED AT 10:54:50 ON 02 NOV 2005  
D STAT QUE L49  
D IDE ALLREF L49 1

FILE 'STNGUIDE' ENTERED AT 10:56:29 ON 02 NOV 2005

FILE HOME

FILE CAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December

26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 2 Nov 2005 VOL 143 ISS 19  
FILE LAST UPDATED: 1 Nov 2005 (20051101/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

#### FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 31 OCT 2005 HIGHEST RN 866452-21-3  
DICTIONARY FILE UPDATES: 31 OCT 2005 HIGHEST RN 866452-21-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

#### FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Oct 28, 2005 (20051028/UP).

#### FILE TOXCENTER

FILE COVERS 1907 TO 1 Nov 2005 (20051101/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TOXCENTER has been enhanced with new files segments and search fields.  
See HELP CONTENT for more information.

TOXCENTER thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary. See <http://www.nlm.nih.gov/mesh/> and [http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html) for a description of changes.

#### FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 Nov 2005 (20051101/PD)  
FILE LAST UPDATED: 1 Nov 2005 (20051101/ED)  
HIGHEST GRANTED PATENT NUMBER: US6961956  
HIGHEST APPLICATION PUBLICATION NUMBER: US2005241041  
CA INDEXING IS CURRENT THROUGH 1 Nov 2005 (20051101/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 Nov 2005 (20051101/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2005  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<  
>>> original, i.e., the earliest published granted patents or <<<  
>>> applications. USPAT2 contains full text of the latest US <<<  
>>> publications, starting in 2001, for the inventions covered in <<<  
>>> USPATFULL. A USPATFULL record contains not only the original <<<  
>>> published document but also a list of any subsequent <<<  
>>> publications. The publication number, patent kind code, and <<<  
>>> publication date for all the US publications for an invention <<<  
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<  
>>> records and may be searched in standard search fields, e.g., /PN, <<<  
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<  
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<  
>>> enter this cluster. <<<  
>>> <<<  
>>> Use USPATALL when searching terms such as patent assignees, <<<  
>>> classifications, or claims, that may potentially change from <<<  
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

#### FILE CAOLD

FILE COVERS 1907-1966  
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

FILE MARPAT

FILE CONTENT: 1988-PRESENT (VOL 143 ISS 18) (20051028/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES  
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6924313 02 AUG 2005  
DE 1020040544 04 AUG 2005  
EP 1568694 31 AUG 2005  
JP 2005213127 11 AUG 2005  
WO 2005090358 29 SEP 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

FILE BEILSTEIN

FILE LAST UPDATED ON OCTOBER 10, 2005

FILE COVERS 1771 TO 2005.

**FILE CONTAINS 9,363,954 SUBSTANCES**

>>>PLEASE NOTE: Reaction Data and substance data are stored in  
separate documents and can not be searched together in one query.  
Reaction data for BEILSTEIN compounds may be displayed  
immediately with the display codes PRE (preparations) and REA  
(reactions). A substance answer set retrieved after the search  
for a chemical name, a compounds with available reaction  
information by combining with PRE/FA, REA/FA or more generally  
with RX/FA. The BEILSTEIN Registry Number (BRN) is the link  
between a BEILSTEIN compound and belonging reactions. For mo  
detailed reaction searches BRNs can be searched as reaction  
partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

\*\*\*\*\*

\* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. \*  
\* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE \*  
\* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE \*  
\* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. \*  
\* FOR PRICE INFORMATION SEE HELP COST \*

\*\*\*\*\*

**NEW**

\* PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE  
SEARCHED, SELECTED AND TRANSFERRED.  
\* NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES,  
ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A  
COMPOUND AT A GLANCE.